

**LESSON 10.4**

**Practice B**

For use with pages 671-679

1. Multiple Choice In the figure shown, which statement is true?

A.  $\angle SPR \cong \angle PSQ$

B.  $\angle RQS \cong \angle RPS$

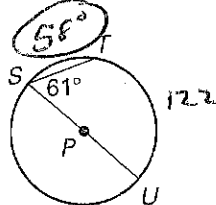
C.  $\angle RPS \cong \angle PRQ$

D.  $\angle PRQ \cong \angle SQR$

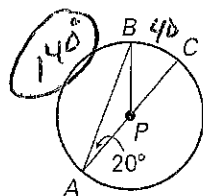


Find the measure of the indicated angle or arc in  $\odot P$ .

2.  $m\widehat{ST}$



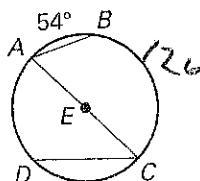
3.  $m\widehat{AB}$



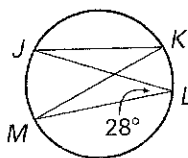
4.  $m\angle JLM$



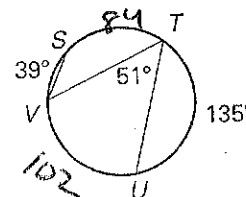
5.  $m\angle A$



6.  $m\angle K$



7.  $m\widehat{VST}$



360  
-276  
84  
+39

Find the measure of the indicated angle or arc in  $\odot P$ , given  $m\widehat{LM} = 84^\circ$  and  $m\widehat{KN} = 116^\circ$ .

8.  $m\angle JKL$

9.  $m\angle MKL$

10.  $m\angle KMN$

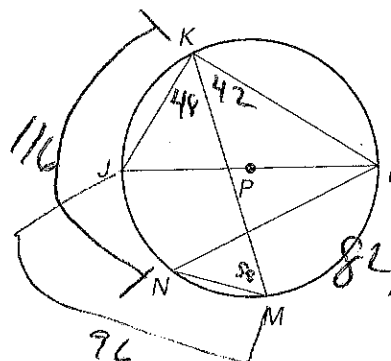
11.  $m\angle JKM$

12.  $m\angle KLN$

13.  $m\angle LNM$

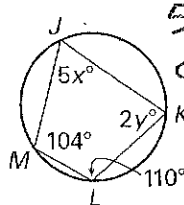
14.  $m\widehat{MJ}$

15.  $m\widehat{LKJ}$



Find the values of the variables.

16.



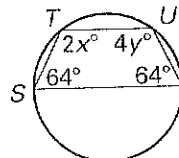
$5x = 70$

$x = 14$

$2y = 76$

$y = 38$

17.



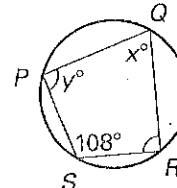
$4y = 116$

$y = 29$

$2x = 116$

$x = 58$

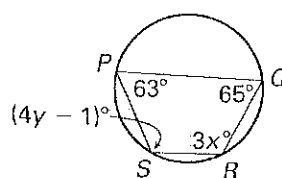
18.



$x = 72$

$y = 90$

19.



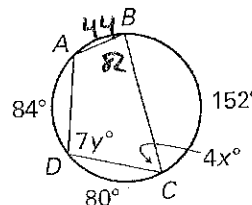
$4y - 1 = 115$

$3x = 117$

$y = 29$

$x = 39$

20.



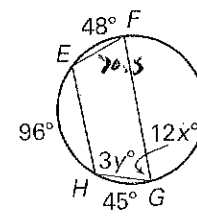
$7y = 98$

$y = 14$

$4x = 128$

$x = 32$

21.



$3y = 109.5$

$y = 36.5$

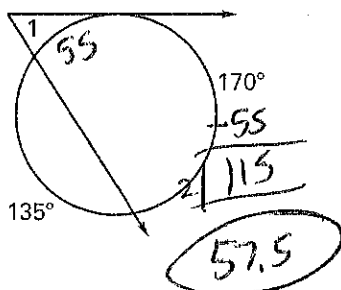
$12x = 144$

**LESSON**  
**10.5****Practice C**

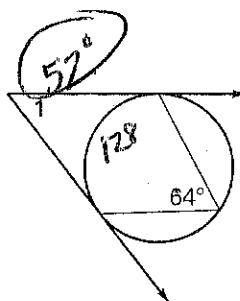
For use with pages 680-686

Find the measure of  $\angle 1$ .

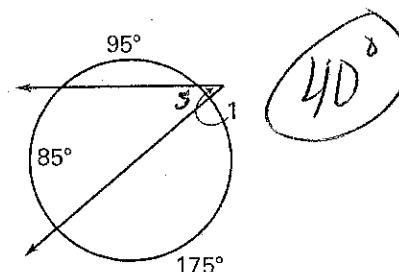
1.



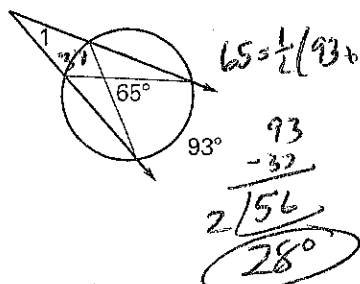
2.



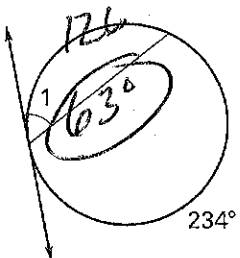
3.



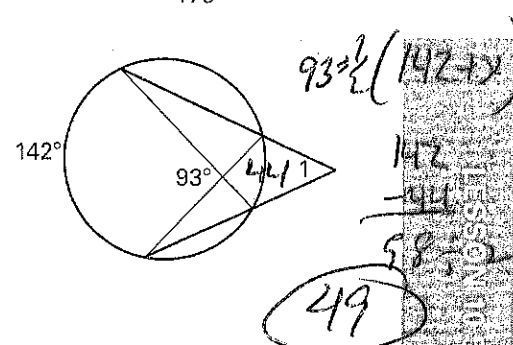
4.



5.



6.



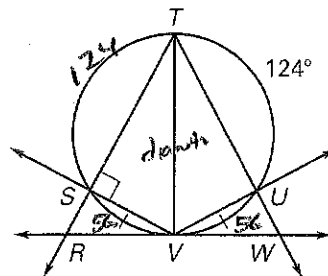
Use the information given in the diagram to find the measure.

7.  $m\widehat{TV} = 180^\circ$

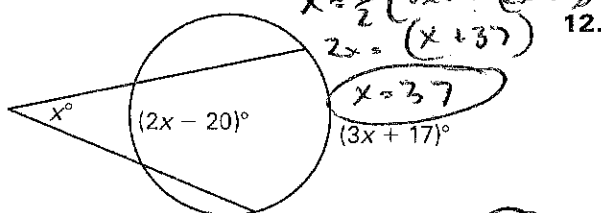
8.  $m\widehat{SV} = 56^\circ$

9.  $m\angle STU = 56^\circ$

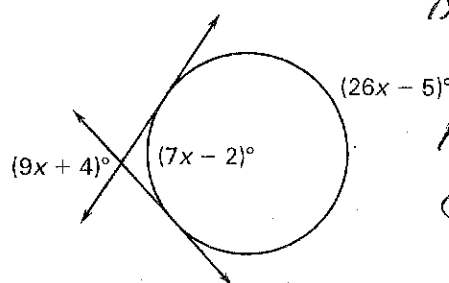
10.  $m\angle VWU = 62^\circ$

Find the value of  $x$ .

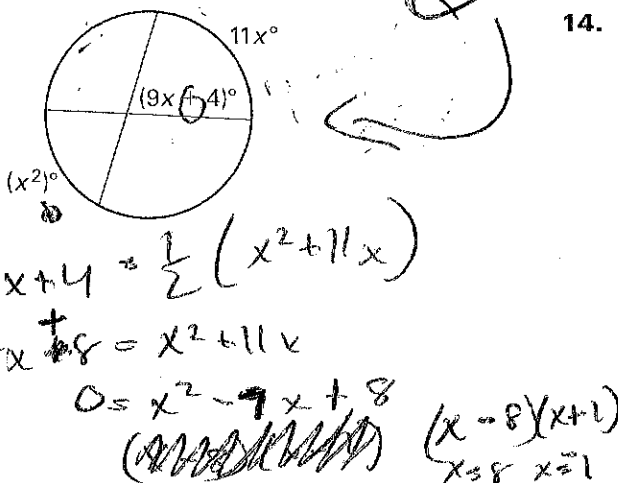
11.



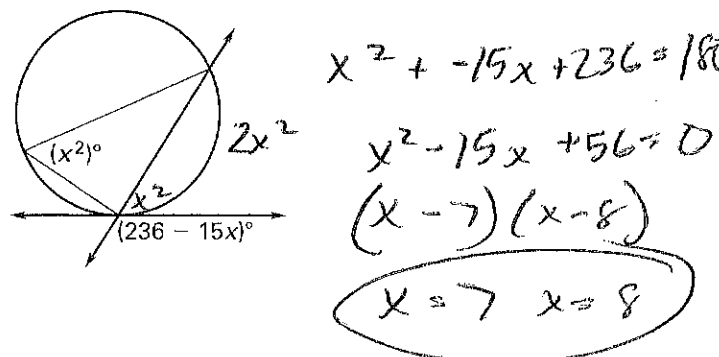
12.



13.



14.



W/ 10-49  
10-65

Name Key

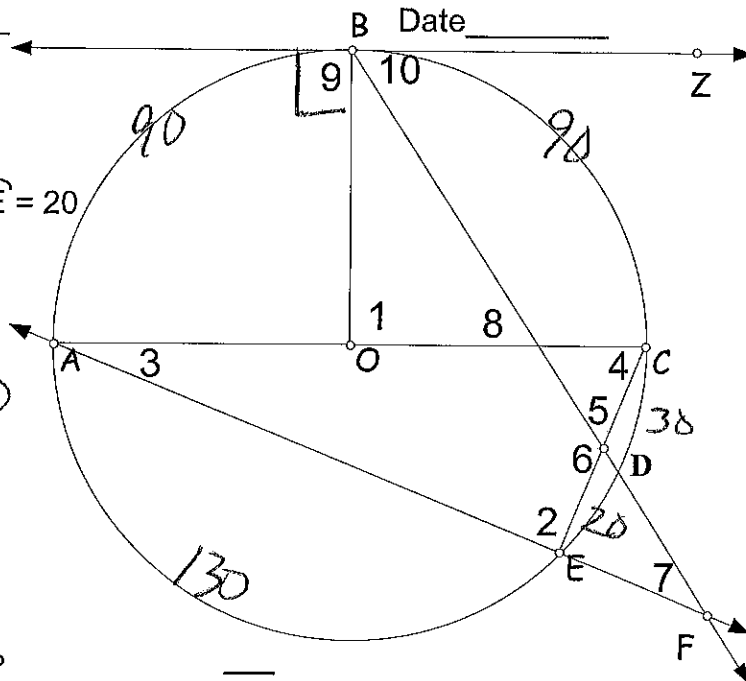
Date \_\_\_\_\_

Given  $\overleftrightarrow{BZ}$  is tangent to circle O  
AC is the diameter  
 $m\widehat{BC} = 90$ ,  $m\widehat{CD} = 30$ , and  $m\widehat{DE} = 20$

Find the measures of the angles.

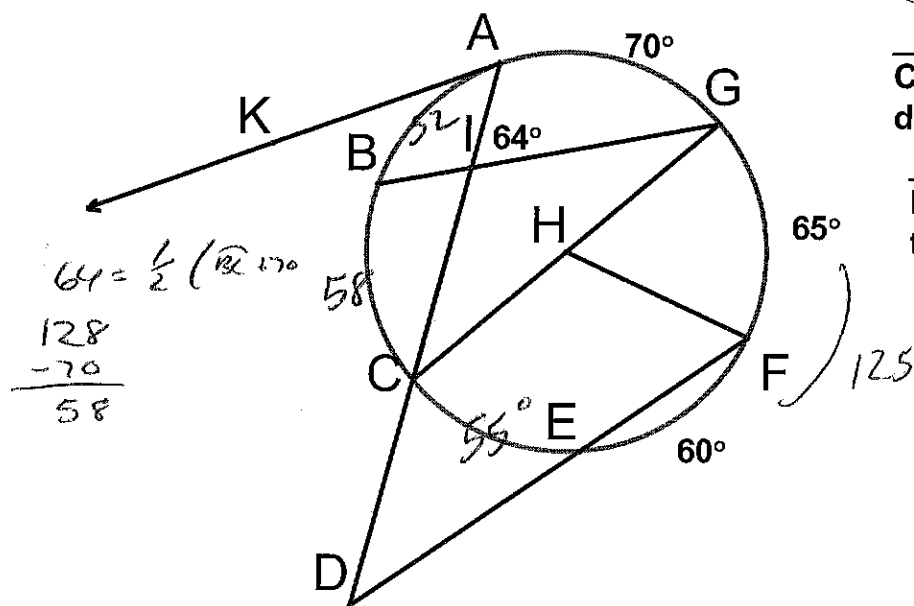
$m\angle 1 = 90$	$m\angle 6 = 125$
$m\angle 2 = 90$	$m\angle 7 = 35$
$m\angle 3 = 25$	$m\angle 8 = 60$
$m\angle 4 = 65$	$m\angle 9 = 90$
$m\angle 5 = 55$	$m\angle 10 = 66$
$\frac{1}{2}(90+20)$	

$\frac{1}{2}(90+20)$   
 $\frac{1}{2}(90+30)$   
 $\frac{1}{2}120$



$\overline{CG}$  is the diameter

$\overline{KA}$  is tangent to  $\odot H$



Find the measures of the following arcs and angles. Make sure you think about what kind of angle it is before you find it. (Central, inscribed, inside, or outside)

Find:

$m\widehat{CE} =$  ~~58~~ 55  $\frac{1}{2}(128 - 18)$

$m\widehat{CB} =$  58

$m\widehat{AB} =$  52  $\frac{360 - 308}{2}$

$m\angle ACG =$  35

$\angle D =$  40  $\frac{1}{2}(135 - 55)$

$m\angle GHF =$  65

$m\angle FHC =$  115

$m\angle AIB =$  116  $180 - 64$

$m\angle KAC =$  55  $\frac{1}{2}110$

$m\angle BGC =$  29  $\frac{1}{2}58$